ABR-Scan Science Week 9-10

Unit for Antibiotics and Infection Control

This ABR-Scan Science is compiled by the Unit for Antibiotics and Infection Control at the Public Health Agency of Sweden. It includes a summary of links to recent articles from a selection of 17 scientific journals that we find interesting. All journals included in the scan are listed at the bottom of the document. The articles are sorted according to our categorization: surveillance, treatment and diagnosis, prevention and intervention, microbiology and other. If you have any comments or suggestions, please send an e-mail to Jonas Fuks at ABR-scan@folkhalsomyndigheten.se

Surveillance

mcr-1 in Enterobacteriaceae from Companion Animals, Beijing, China, 2012–2016. Emerging Infectious Diseases

Twenty years and counting: epidemiology of an outbreak of isoniazid-resistant tuberculosis in England and Wales, 1995 to 2014. Eurosurveillance

Patients hospitalized abroad as importers of multiresistant bacteria – a cross-sectional study. Clinical Microbiology and Infection

ST405 NDM-5 Producing Escherichia coli in Northern Italy: the First Two Clinical Cases. Clinical Microbiology and Infection

Extended-spectrum β-lactamase- and pAmpC-producing Enterobacteriaceae among the general population in a livestock-dense area. Clinical Microbiology and Infection

Longitudinal investigation of nasopharyngeal methicillin-resistant Staphylococcus aureus colonization in early infancy: The PATCH birth cohort study. Clinical Microbiology and Infection

High Incidence of Escherichia coli Strains Coharboring mcr-1 and blaNDM from Chickens. Antimicrobial Agents and Chemotherapy

Prevalence and genetic characteristics of carbapenem-resistant Enterobacteriaceae strains in China. Lancet Infectious Diseases

Invasive pneumococcal disease in children aged younger than 5 years in India: a surveillance study. Lancet Infectious Diseases

Socioeconomic Factors Explain Racial Disparities in Invasive Community-Associated Methicillin-Resistant Staphylococcus aureus Disease Rates. Clinical Infectious Diseases

Treatment and diagnosis

Efficacy of the switch to oral antibiotics in the treatment of non-Staphylococcus aureus infective endocarditis in non-severely ill patients. Clinical Microbiology and Infection

Response to the comment on “Efficacy of the switch to oral antibiotics in the treatment of non-Staphylococcus aureus infective endocarditis in non-severely ill patients” by Davido et al. Clinical Microbiology and Infection

Nephrotoxicity of Polymyxins: Is There Any Difference between Colistimethate and Polymyxin B? Antimicrobial Agents and Chemotherapy

Ceftaroline-Resistant, Daptomycin-Tolerant, and Heterogeneous Vancomycin-Intermediate Methicillin-Resistant Staphylococcus aureus Causing Infective Endocarditis. Antimicrobial Agents and Chemotherapy
Dosing Guidance for Intravenous Colistin in Critically Ill Patients. Clinical Infectious Diseases
Comparative Effectiveness and Safety of Standard-, Medium-, and High-Dose Daptomycin Strategies for the Treatment of Vancomycin-Resistant Enterococcal Bacteremia Among Veterans Affairs Patients. Clinical Infectious Diseases
Systematic Review and Metaanalysis of Acute Kidney Injury Associated With Concomitant Vancomycin and Piperacillin/Tazobactam. Clinical Infectious Diseases
Low Doses of Colistimethate: Don’t Rush In! Clinical Infectious Diseases

Prevention and intervention
A new way to prevent urinary tract infections? Lancet
The effect of an antibiotic checklist on length of hospital stay and appropriate antibiotic use in adult patients treated with intravenous antibiotics: a stepped wedge cluster randomised trial. Clinical Microbiology and Infection
Top 1% of Inpatients Administered Antimicrobial Agents Comprising 50% of Expenditures: A Descriptive Study and Opportunities for Stewardship Intervention. Infectious Control and Hospital Epidemiology

Microbiology
Impact of MALDI-TOF-MS-based identification directly from positive blood cultures on patient management: a controlled clinical trial. Clinical Microbiology and Infection
Emergence of Ceftazidime-Avibactam Resistance Due to Plasmid-Borne blaKPC-3 Mutations during Treatment of Carbapenem-Resistant Klebsiella pneumoniae Infections. Antimicrobial Agents and Chemotherapy

Other
Antimicrobial resistance: a light at the end of the tunnel? Lancet
Counting the cost of an outbreak of carbapenemase-producing Enterobacteriaceae: an economic evaluation from a hospital perspective. Clinical Microbiology and Infection
Increased Costs Associated with Bloodstream Infections Caused by Multidrug-Resistant Gram-Negative Bacteria Are Due Primarily to Patients with Hospital-Acquired Infections. Antimicrobial Agents and Chemotherapy
Educating front-line clinicians about antimicrobial resistance. Lancet Infectious Diseases

The publications included in the scan are: Antimicrobial Agents and Chemotherapy, British Medical Journal, Clinical Infectious Diseases, Clinical Microbiology and Infection, Emerging Infectious Diseases, Eurosurveillance, Infection Control & Hospital Epidemiology, Infectious Diseases, JAMA - The Journal of the American Medical Association, Journal of Antimicrobial Chemotherapy, Journal of Hospital Infection, Journal of Infectious Diseases, Lancet, Lancet Infectious Diseases, New England Journal of Medicine, Pediatrics and Scandinavian Journal of Primary Health Care. In addition, other articles from other publications can be included.